BRUHATH BENGALURU MAHANAGARA PALIKE

Yelahanka Division, Yelahanka Zone

Executive Engineeer
Yelahanka Division
B.B.M.P. Bengaluru - 64

No:EE/YNK-D/E-PMT/12/2022-23 Dated: 26-08-2022

APPROVED TENDER SCHEDULE –'B'

Item 52

Name of Work:-Additional developmental works to Urdu school in Attur ward no -04 of Yelahanka Satellite town sub division

Sl	Description	Unit	Approved Qty	Rate quoted by the contractor approved rates Sri SHIVAKUMAR B V	
				Rate	Rate in Words
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Depth exceeding 1.5m, but not exceeding 3 m	Cum	29.88	218.46	Two Hundred Eighteen Paise FourtySix Only
2	Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.	Cum	4.62	2811.47	Two Thousand Eight Hundred Eleven Paise FourtySeven Only
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse	Cum	39.55	6097.18	Six Thousand NinetySeven Paise Eighteen Only

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	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates	Cum	9.59	7104.26	Seven Thousand One Hundred Four Paise TwentySix Only
5	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/ basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement, dowel bars & formwork to be paid separately) M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates -Column Upto Beam Bottom	Cum	0.62	7470.09	Seven Thousand Four Hundred Seventy Paise Nine Only
6	Stair Case	Cum	3.55	8149.19	Eight Thousand One Hundred FourtyNine Paise Nineteen Only
7	Providing Thermo-Mechanically Treated bars of grade Fe-550 Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)	Kg	1585.30	105.39	One Hundred Five Paise ThirtyNine Only
8	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations and other similar works etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	Cum	1.55	223.95	Two Hundred TwentyThree Paise NinetyFive Only
9	Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 14 m3)	Cum	28.33	81.24	EightyOne Paise TwentyFour Only
10	Cost of Haulage Excluding Loading and Unloading Taking output 10 t load and lead 10 km = 100 t.km	T.km	36.26	117.36	One Hundred Seventeen Paise ThirtySix Only

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	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m^2 over and including priming coat of exterior primer applied @ 2.20 kg/10 m^2) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge	Sqm	179.87	149.30	One Hundred FourtyNine Paise Thirty Only
12	Finishing with Epoxy paint (two coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete. On concrete work including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge	Sqm	399.14	151.50	One Hundred FiftyOne Paise Fifty Only
13	Providing and laying water proofing treatment to the Roof with PU based single component elastomeric pure polyurethane based coating on New terrace/Chajjas/Sunken portion of WC:Bathroom, cold applied PU waterproofing membrane that is highly elastic with elongation greater than 400% and tensile strength greater than 2MPa as per ASTM D412. The waterproofing membrane to be applied in 2coats @ 1.6kg per m2 to achieve final DFT (dry film thickness) of 1mm including prime coat of epoxy primer @150 g per m2 and protection with 120gsm Geo-textile over the waterproofing membrane. The finished cost to include surface preparation, making coving at Junction, Bore Packing, treatment of construction joints completely as per specification & with a 10 years warranty on product & work from certified manufacturers as per the direction of the Engineer In charge.	Sqm	36.09	817.86	Eight Hundred Seventeen Paise EightySix Only
14	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent.	Sqm	165.57	3150.69	Three Thousand One Hundred Fifty Paise SixtyNine Only
15	Providing and placing on terrace(at all floor levels), polyethylene water storage tanks as per IS 12701 marked,with cover and suitable locking arrangement and making necessary holes for inlet,outlet and overflow pipes but without fittings and the base support for tank(For 1000 litre capacity)	Ltr	1000.00	8.78	Eight Paise SeventyEight Only
16	Supply and delivery of Centrifugal pumpset at site brand new best make and with discharge duty confirming to ISI standards and its latest amendments.-2 HP, Size 50x40 Head 22M, Discharge 186 LPM	Each	1.00	19178.57	Nineteen Thousand One Hundred SeventyEight Paise FiftySeven Only

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17	Providing and CPVC Pipes conforming to IS 15778, Having thermal Stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtrs spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. 20mm nominal dia pipes.	M	100.00	409.48	Four Hundred Nine Paise FourtyEight Only
18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete : 20 mm nominal bore	Nos	3.00	395.21	Three Hundred NinetyFive Paise TwentyOne Only
19	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mmheight with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made)	Sqm	18.34	7948.07	Seven Thousand Nine Hundred FourtyEight Paise Seven Only
20	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required-W.C. pan with ISI marked white solid plastic seat and lid	Each	4.00	5494.49	Five Thousand Four Hundred NinetyFour Paise FourtyNine Only
21	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	Each	4.00	2776.34	Two Thousand Seven Hundred SeventySix Paise ThirtyFour Only
22	Providing and fixing brass bib cock of approved quality 20mm nominal bore	Nos	10.00	378.74	Three Hundred SeventyEight Paise SeventyFour Only
23	Providing and fixing brass Stop cock of approved quality 20mm nominal bore	Nos	6.00	378.74	Three Hundred SeventyEight Paise SeventyFour Only
24	Providing and fixing on wall face unplasticised rigid PVC rain water pipes conforming to IS:13592 Type A, including jointing with seal ring conforming to IS 5382, leaving 10mm gap for thermal expansion, single socketed pipes 100mm diameter	M	50.00	277.74	Two Hundred SeventySeven Paise SeventyFour Only

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	Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg pe r m2 over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and Usage charges of machinery complete as per specifications.	Sqm	117.62	1256.98	One Thousand Two Hundred FiftySix Paise NinetyEight Only
26	Open Conduit System Supplying heavy gauge PVC conduit pipe ..... dia ..... mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc , and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 19/20 mm dia 2 mm thick	M	70.00	67.86	SixtySeven Paise EightySix Only
27	Supplying and flush mounting teak wooden box without front plank, made of not less than 12 mm thick wood, after due groove cutting, finishing with necessary cement plastering complete 8" x 6" x 3" (203 x 152 x 76 mm)	Each	6.00	74.85	SeventyFour Paise EightyFive Only
28	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6A flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Short point upto 3m from tapping point to out let via switch	Each	2.00	275.45	Two Hundred SeventyFive Paise FourtyFive Only
29	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) with a 6A flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.Medium point above 3m upto 6m from tapping point to out let via switch	Each	2.00	385.23	Three Hundred EightyFive Paise TwentyThree Only

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	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5mm2 (Phase & Neutral) & 1x1.0 mm2 (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) witha 6A flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. Long point above 6m upto 10m from tapping point to out let via switch	Each	5.00	565.87	Five Hundred SixtyFive Paise EightySeven Only
31	Supplying 6A flush type socket and 6 A flush type SP switch either surface/flush mounting in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wires as required as per IS 1293 and IS 3654 6A 3/5 Way	Each	2.00	142.71	One Hundred FourtyTwo Paise SeventyOne Only
32	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 1.5 sqmm	M	90.00	25.95	TwentyFive Paise NinetyFive Only
33	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 2.5 sqmm	M	60.00	39.92	ThirtyNine Paise NinetyTwo Only
34	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.4 sqmm	M	160.00	58.88	FiftyEight Paise EightyEight Only
35	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc, and fixing on existing wooden or metal box using N.F. screws.	Sq Cm	2000.00	0.29	Paise TwentyNine Only
36	Supplying & fixing retrofit type-PL- LED Lamp ..... W LED linear source with CCT 6500 degree K, CRI> 70%. efficacy >80 lumen per W, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp Wage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to275 V. Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under	Each	6.00	689.62	Six Hundred EightyNine Paise SixtyTwo Only
37	Supplying wall mounting fan suitable to operate at singlephase 230v AC. supply. 400 mm Sweep	Each	6.00	2832.32	Two Thousand Eight Hundred ThirtyTwo Paise ThirtyTwo Only

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	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than TS lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply-14 W Lamp	Each	4.00	131.74	One Hundred ThirtyOne Paise SeventyFour Only
39	Supply and fixing polished wood board made of not lessthan 15mm thick plank on both sides of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws. 20" x 20" x 2.5"	Each	4.00	314.37	Three Hundred Fourteen Paise ThirtySeven Only
40	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.32 A	Each	8.00	199.60	One Hundred NinetyNine Paise Sixty Only
41	Supplying of on load change over switches 4 poles, AC-23A Duty, 415V, 50Hz, AC Supply. (Open Execution) upto 63 A	Each	1.00	5174.63	Five Thousand One Hundred SeventyFour Paise SixtyThree Only
42	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 A TPN	Each	2.00	2394.20	Two Thousand Three Hundred NinetyFour Paise Twenty Only
43	Supplying & fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 A TPN	Each	3.00	1773.45	One Thousand Seven Hundred SeventyThree Paise FourtyFive Only
44	Supplying, fixing and wiring Electronic Trivector Meter (ETV) 5 to 32/63 A three phase 4 wire whole current class-1 Accuracy Energy Meter.	Each	1.00	5114.75	Five Thousand One Hundred Fourteen Paise SeventyFive Only
45	Supplying, fixing, wiring, earth electrode for grounding conduits, IC Cutouts and other equipments on the meter board using 40 mm dia 2.9 thick GI pipe 2.5 mtrs long buried in a pit... The pit should be filled with equal proportion of salt and charcoal 150 mm alround the pipe to complete depth. The connection form the pipe to the conduit etc., is to be established through GI wire of size as oer ISI specification 7.3.3 of IS 732 using 12 mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 12mm dia.	Nos	2.00	2993.00	Two Thousand Nine Hundred NinetyThree Only
46	Supplying and rinning of GI/Copper strips for grounding connections using necessaty fixing material as required GI Strip 25 X 3 mm	Nos	40.00	74.85	SeventyFour Paise EightyFive Only
47	Supplying of LT UG cable having aluminium conductor PVC insulator sheathed, galvished, steel wire/steel tap armoured cable with PVC outer sheating 1.1 KV class I Class A PVC cable 4 core 16 sqmm	M	50.00	149.70	One Hundred FourtyNine Paise Seventy Only
48	Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe/stoneware pipe /on wall/on pole as required.I. In existing trench/duct a) 6 sqmm to 16 sqmm	M	50.00	11.86	Eleven Paise EightySix Only

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	Digging of trench of 0.6m deep X 0.5 m wide refilling the trench to the required ground level and consolidating etc complete., a) In soil (ordinary)	M	30.00	75.85	SeventyFive Paise EightyFive Only
	Supplying and fixing of class A (Medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangement for UG cable of 1.1 KV Class. A) 40mm	M	2.00	334.33	Three Hundred ThirtyFour Paise ThirtyThree Only
51	Supplying & fixing LT Cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etx., b)16 sqmm	Each	1.00	269.46	Two Hundred SixtyNine Paise FourtySix Only
52	Providing BESCOM deposits excuding ESCOM 3 Phase energy meter for 10 hp 3 phase power supply under LT-5 tariff	L.S	1.00	9980.00	Nine Thousand Nine Hundred Eighty Only

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Signature of the
Contractor

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